# Lab Manual 08 Lab task submission

```
#include <iostream> using
namespace std;
int main ()
{
        int n,i;
       double array[1000],sum(0),avg;
cout<<"enter the number of terms \n";</pre>
        cin>>n;
                       if(n<0){
cout<<"enter positive number \n";</pre>
               cin>>n;
        }
        else{
               cout<<"enter the terms\n";</pre>
for(i=0;i<n;i++){
                       cin>>array[i];
sum+=array[i];
               }
               avg=sum/n;
cout<<avg;
        }
}
```

```
enter the number of terms

5
enter the terms

1
2
3
4
6
3.2

Process exited after 7.389 seconds with return value 0
Press any key to continue . . .
```

```
#include <iostream> using
namespace std;
int main()
{
        int n;
        int array[n];
int i,j,s,k;
        char x;
        do{
                cout<<"Input element to array: "<<endl;</pre>
                cin>>array[n];
                n++;
                cout<<"Do you want to continue. Input y if yes"<<endl;</pre>
                cin>> x;
        }while(x=='y');
        for (int step = 0; step < n; step++) {
```

```
for (int i = 0; i < n - step; i++) {
    if (array[i] > array[i + 1]) {
        int temp = array[i];
        array[i] = array[i + 1];
        array[i + 1] = temp;
        }
    }
    for(int I = 0; I < n; I + +) {
            cout < < array[I] < < ' ';
        }
}</pre>
```

```
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Input element to array:
Do you want to continue. Input y if yes
Input element to array:
Do you want to continue. Input y if yes
Input element to array:
Do you want to continue. Input y if yes
Input element to array:
Do you want to continue. Input y if yes
Input element to array:
Do you want to continue. Input y if yes
Input element to array:
Do you want to continue. Input y if yes
1 2 2 3 4 8
Process exited after 32.23 seconds with return value 0
Press any key to continue . . .
```

```
#include<iostream> using
namespace std;
int main()
{
   int n, arr[50], i, j, temp, small, k, index;
cout<<"Enter the Size of Array: "; cin>>n;
```

```
cout<<"Enter "<<n<<" Array Elements: ";</pre>
  for(i=0; i<n; i++)
cin>>arr[i]; for(i=0;
i<(n-1); i++)
  {
              small =
    k=0;
        for(j=(i+1);
arr[i];
j<n; j++)
    {
      if(small>arr[j])
      {
         small = arr[j];
              index =
k++;
j;
       }
    }
    if(k!=0)
      temp = arr[i];
arr[i] = small;
arr[index] = temp;
    }
  }
  cout<<"\nSorted Array is:\n";</pre>
  for(i=0; i<n; i++)
cout<<arr[i]<<" ";
cout<<endl; return
0;}
```

```
Enter the Size of Array: 5
Enter 5 Array Elements: 3
4
2
8
9
Sorted Array is:
2 3 4 8 9

Process exited after 9.334 seconds with return value 0
Press any key to continue . . .
```

## Home task submission

```
#include <iostream>
using namespace std;
int main()
{
       int
n(10),j,t,e,k,m(1),r,i;
       int
array[10]={1,2,3,2,3,89,2,
6,3,3};
       cout<<"the array
is\n";
       for(i=0;i<n;i++){
       cout<<array[i]<<",
";
       }
       for(k=0;k<n-
1;k++){
               e=array[k];
               t=1;
       for(j=k+1;j<n;j++){
       if(array[j]==e){
                      t++;
```

Process exited after 0.1835 seconds with return value 0

and the most repeated element is = 3

Press any key to continue . . .

```
#include <iostream>
using namespace std;
int main()
{
int i,j,k,s,l;
```

```
int array[]={13, 15, 17, 9,
99, 77, 65, 43};
s=l=array[0];
for(i=1;i<8;i++){
if(array[i]<s){</pre>
       s=array[i];
}
else if(array[i]>l){
       l=array[i];
}
}
cout<<"the largest of all is
= "<<l<<endl;
cout<<"the smallest of all
is = "<<s;
}
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 the largest of all is = 99
 the smallest of all is = 9
```

Process exited after 0.1939 seconds with return value 0

Press any key to continue . . .

```
#include <iostream>
using namespace std;
int main()
{
```

```
int array[5];
       int i,j,e;
       cout<<"enter five
elements\n";
       for(i=0;i<5;i++){
       cin>>array[i];
       }
       cout<<"you
entered \n";
       for(i=0;i<5;i++){
       cout<<array[i]<<",
";
       }
       e=array[1];
       array[1]=array[3];
       array[3]=e;
       cout<<endl<<"swa
pping 2nd and 4th
element we get \n";
       for(i=0;i<5;i++){
       cout<<array[i]<<",
";
       }
}
```